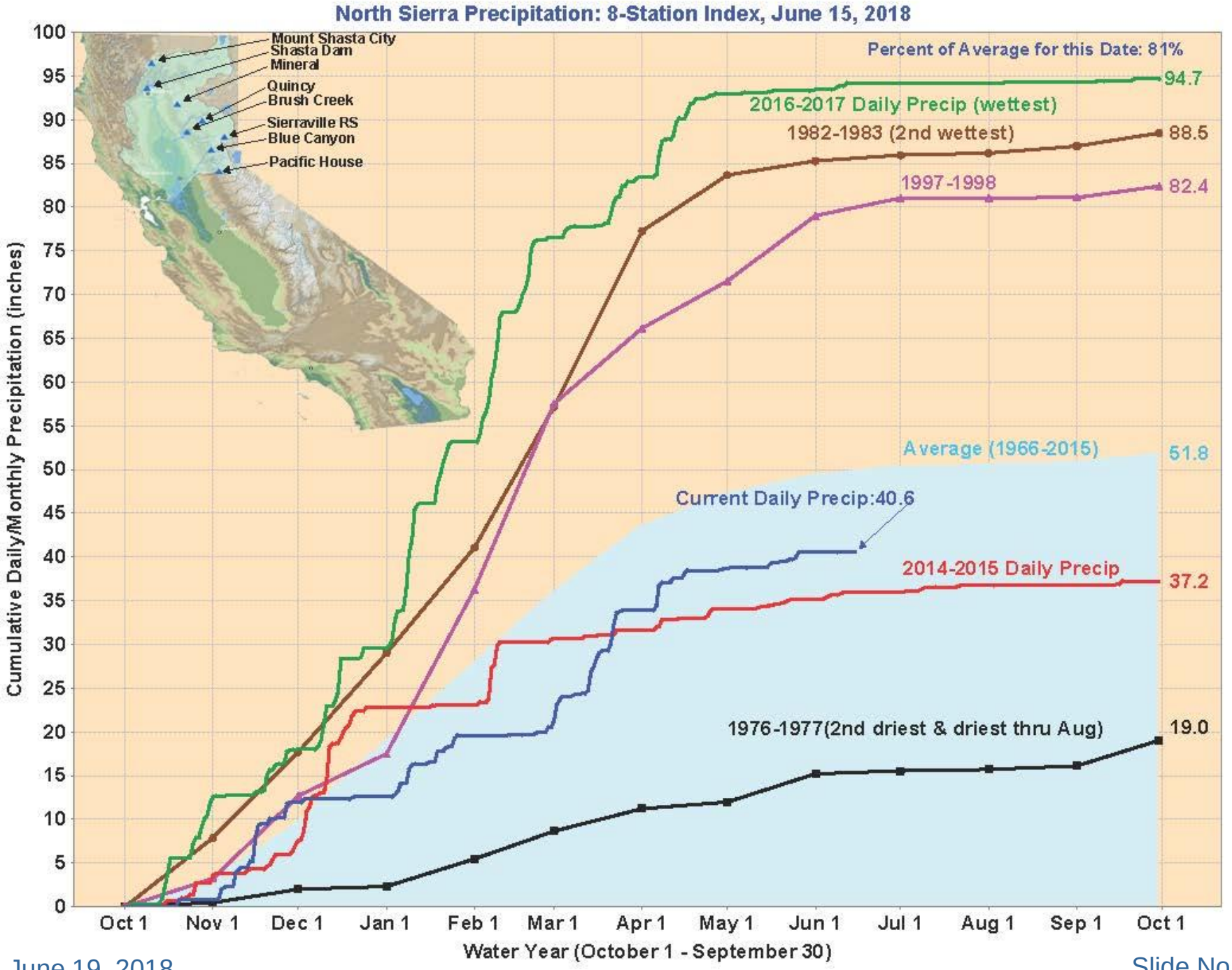
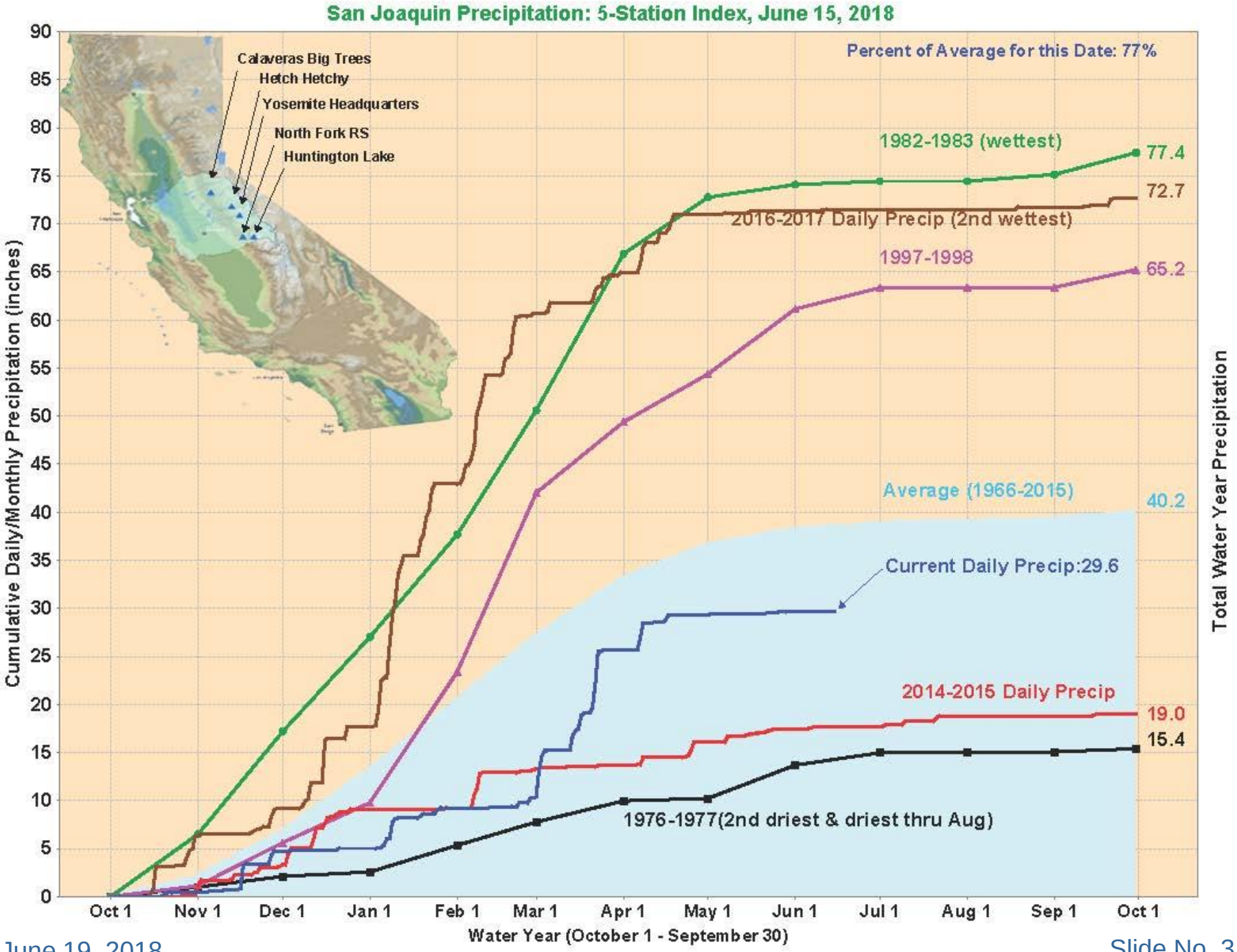
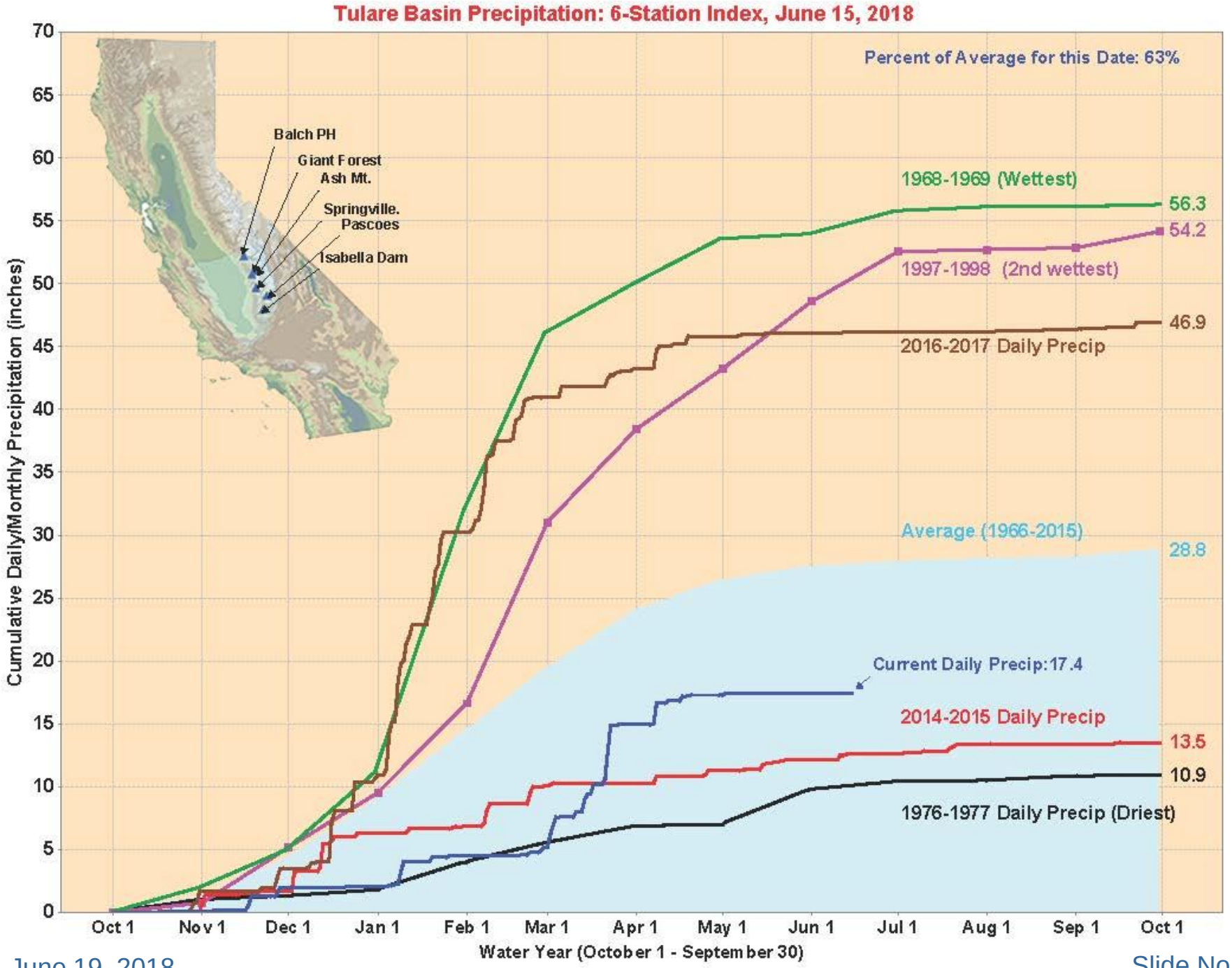
HYDROLOGY UPDATE FOR THE BAY-DELTA WATERSHED

CALIFORNIA
Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

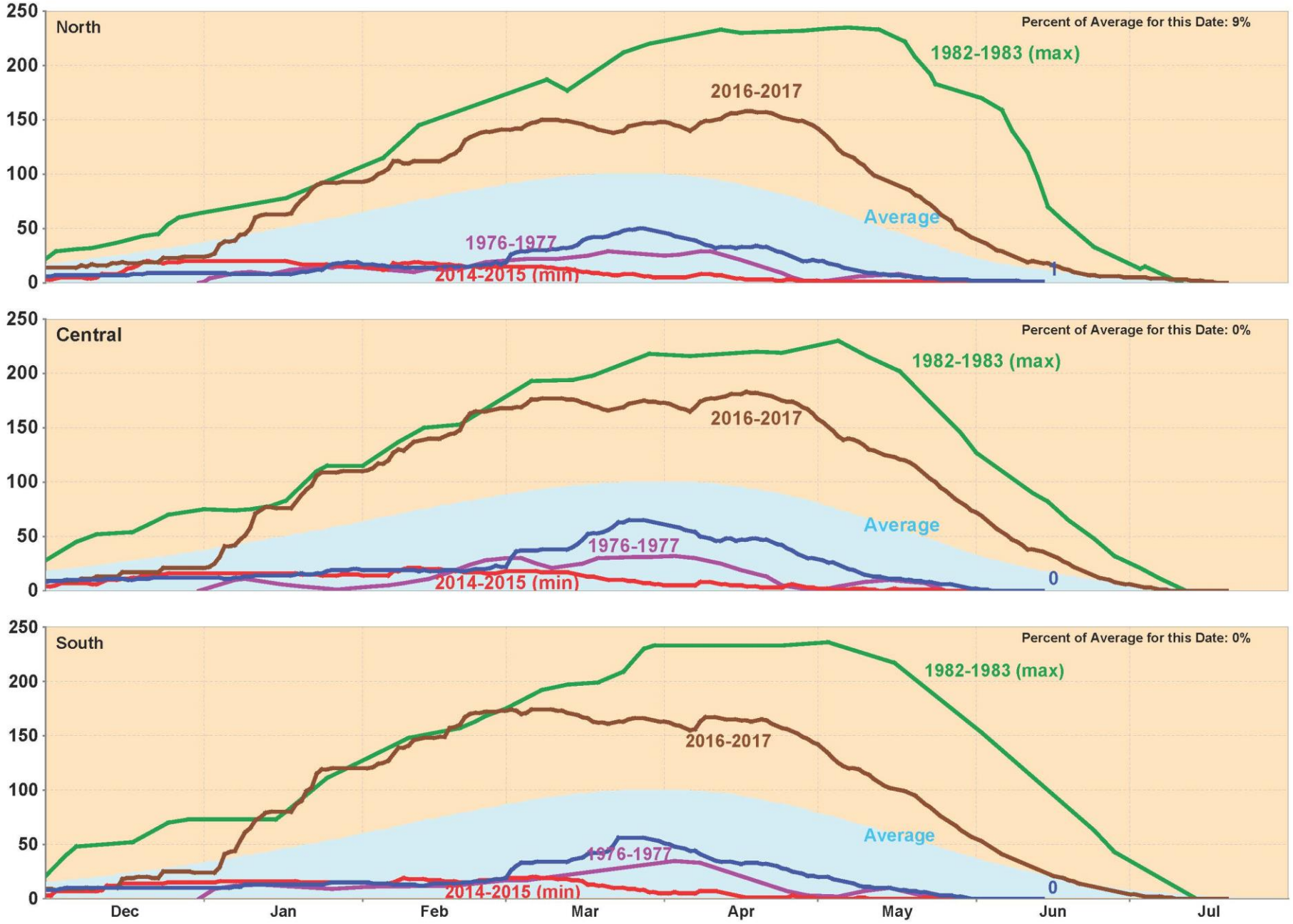
JUNE 19, 2018 – ITEM #2


North Sierra Precipitation: 8-Station Index, June 15, 2018
Mount Shasta City
Shasta Dam
Mineral
Quincy
Brush Creek
Sierraville RS
Blue Canyon
Pacific House
Percent of Average for this Date: 81%
2016-2017 Daily Precip (wettest)
94.7
1982-1983 (2nd wettest)
88.5
1997-1998
82.4
Average (1966-2015)
51.8
Current Daily Precip:40.6
2014-2015 Daily Precip
37.2
1976-1977(2nd driest & driest thru Aug)
19.0
Cumulative Daily/Monthly Precipitation (inches)
Total Water Year Precipitation
Oct 1
Nov 1
Dec 1
Jan 1
Feb 1
Mar 1
Apr 1
May 1
Jun 1
Jul 1
Aug 1
Sep 1
Oct 1
Water Year (October 1 - September 30)


San Joaquin Precipitation: 5-Station Index, June 15, 2018
Percent of Average for this Date: 77%
Calaveras Big Trees
Hetch Hetchy
Yosemite Headquarters
North Fork RS
Huntington Lake
1982-1983 (wettest)
77.4
72.7
2016-2017 Daily Precip (2nd wettest)
1997-1998
65.2
Average (1966-2015)
40.2
Current Daily Precip:29.6
2014-2015 Daily Precip
19.0
15.4
1976-1977(2nd driest & driest thru Aug)
Cumulative Daily/Monthly Precipitation (inches)
Total Water Year Precipitation
Water Year (October 1 - September 30)
Oct 1
Nov 1
Dec 1
Jan 1
Feb 1
Mar 1
Apr 1
May 1
Jun 1
Jul 1
Aug 1
Sep 1
Oct 1
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90


Tulare Basin Precipitation: 6-Station Index, June 15, 2018
Percent of Average for this Date: 63%
Balch PH
Giant Forest
Ash Mt.
Springville.
Pascoes
Isabella Dam
1968-1969 (Wettest)
56.3
54.2
1997-1998 (2nd wettest)
46.9
2016-2017 Daily Precip
Average (1966-2015)
28.8
Current Daily Precip:17.4
2014-2015 Daily Precip
13.5
10.9
1976-1977 Daily Precip (Driest)
Cumulative Daily/Monthly Precipitation (inches)
Total Water Year Precipitation
Water Year (October 1 - September 30)
Oct 1
Nov 1
Dec 1
Jan 1
Feb 1
Mar 1
Apr 1
May 1
Jun 1
Jul 1
Aug 1
Sep 1
Oct 1
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70

California Snow Water Content, June 14, 2018, Percent of April 1 Average

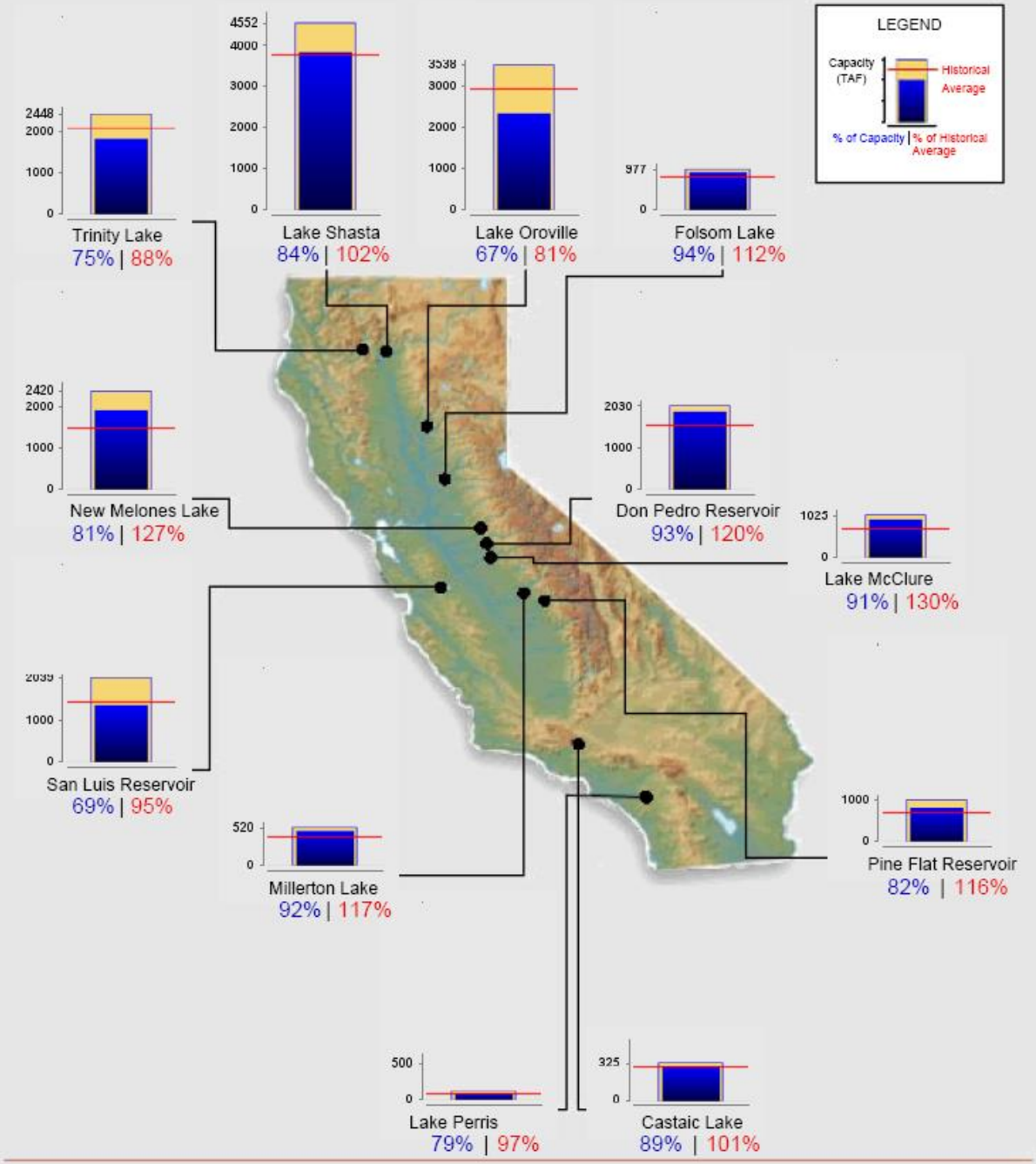


Statewide Percent of April 1: 0%

June 19, 2018

Statewide Percent of Average for Date: 0%

CURRENT RESERVOIR CONDITIONS

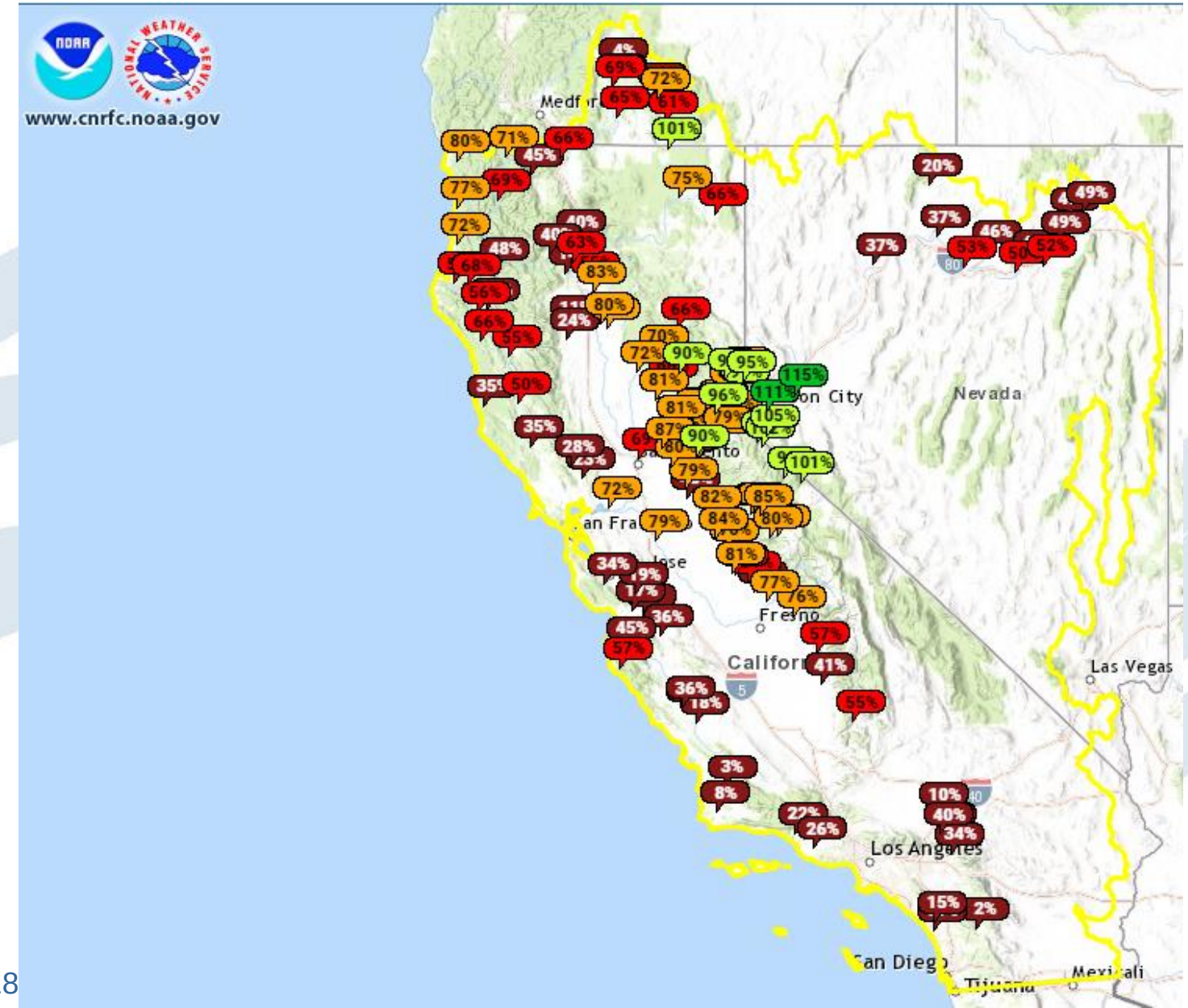


Graph Updated 06/15/2018 08:45 AM

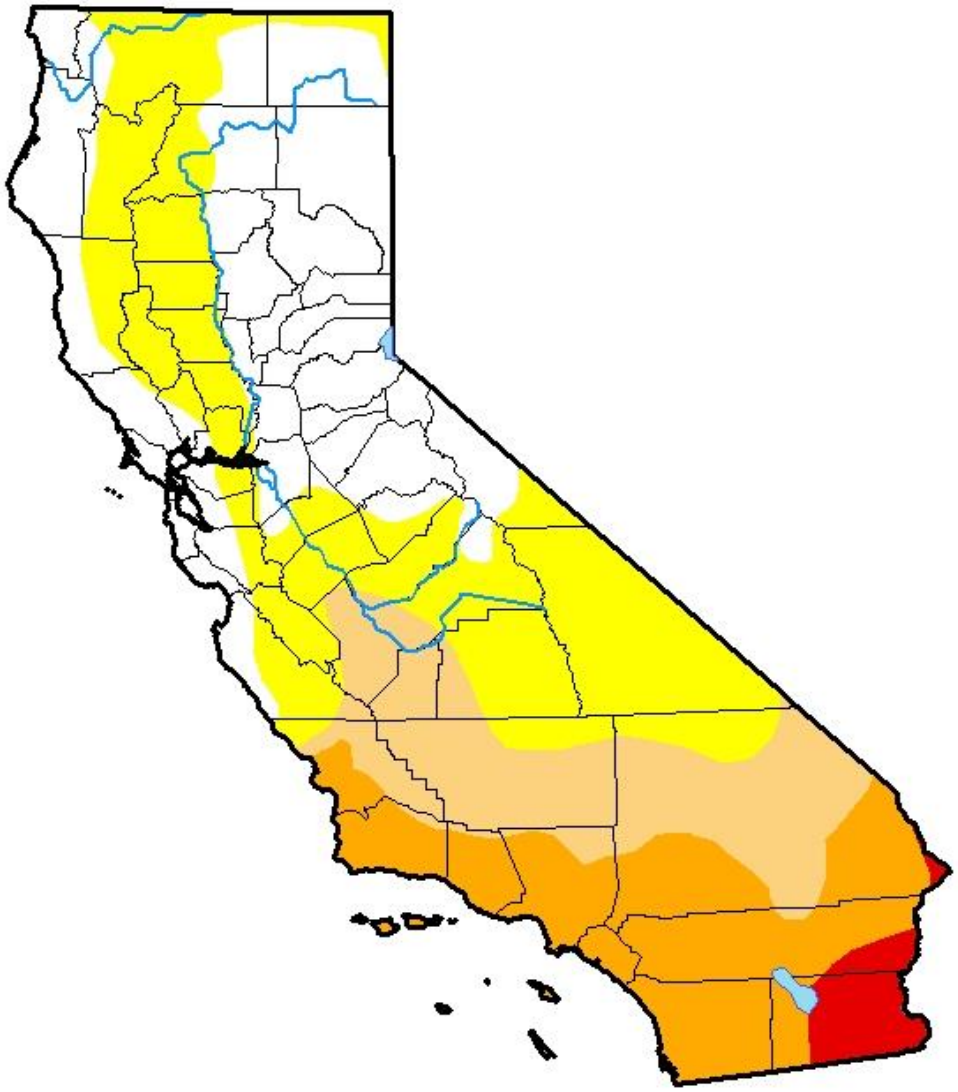
Other Reservoirs

- **Cachuma Reservoir:** 75,776 acre-feet full out of 205,000 acre-foot capacity (37% of capacity and 45% of average)
- **Diamond Valley Lake:** 716,467 acre-feet full out of 810,000 acre-foot capacity (88% of capacity)

Water Year 2018 Volume Forecasts



U.S. Drought Monitor
California



June 12, 2018

(Released Thursday, Jun. 14, 2018)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	30.39	69.61	37.07	20.75	2.77	0.00
Last Week *06-05-2018*	30.39	69.61	37.08	20.75	2.78	0.00
3 Months Ago *03-13-2018*	11.08	88.92	47.68	22.31	0.43	0.00
Start of Calendar Year *01-02-2018*	55.70	44.30	12.69	0.00	0.00	0.00
Start of Water Year *09-26-2017*	77.88	22.12	8.24	0.00	0.00	0.00
One Year Ago *06-13-2017*	76.47	23.53	8.24	1.06	0.00	0.00

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:
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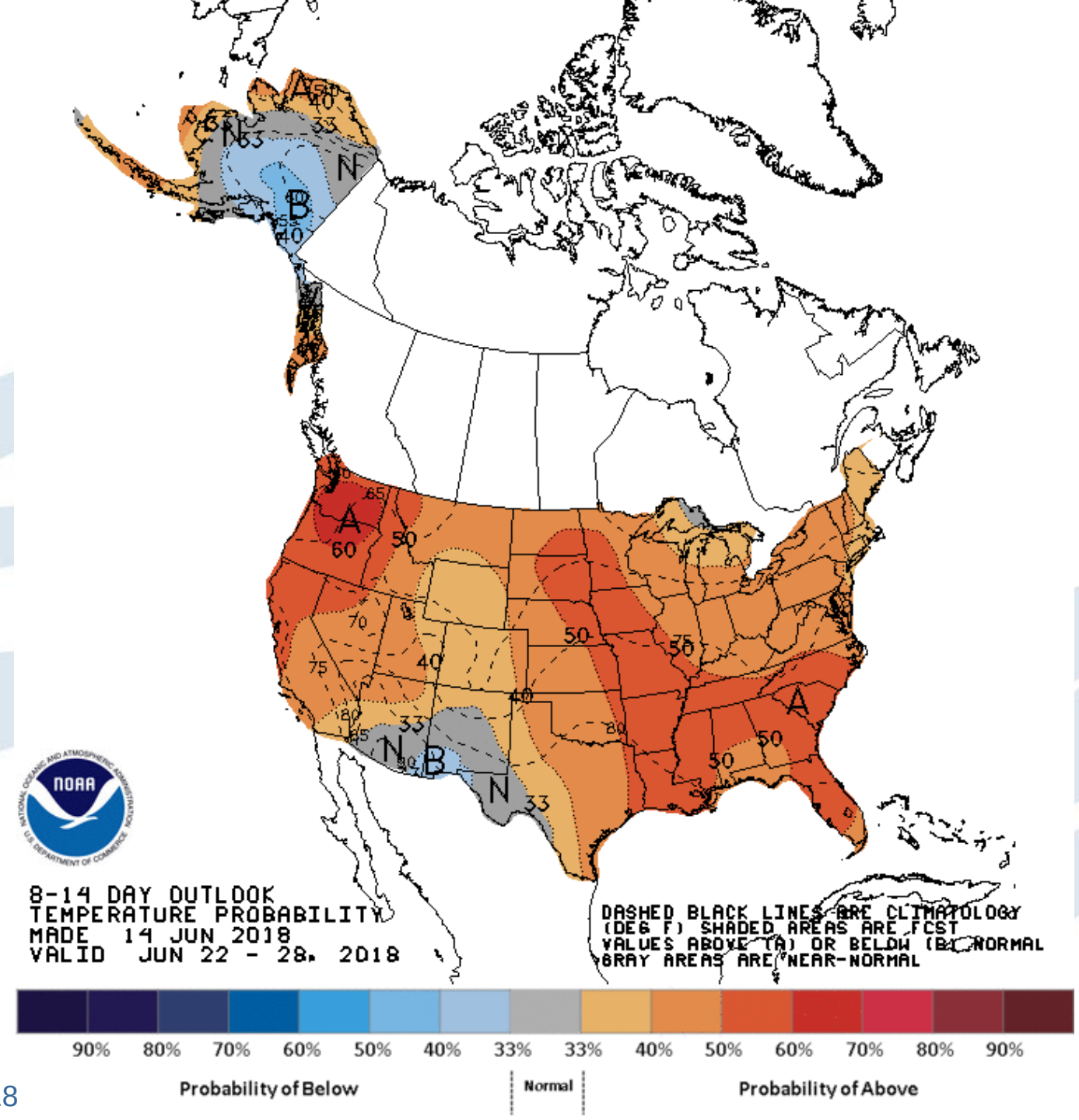
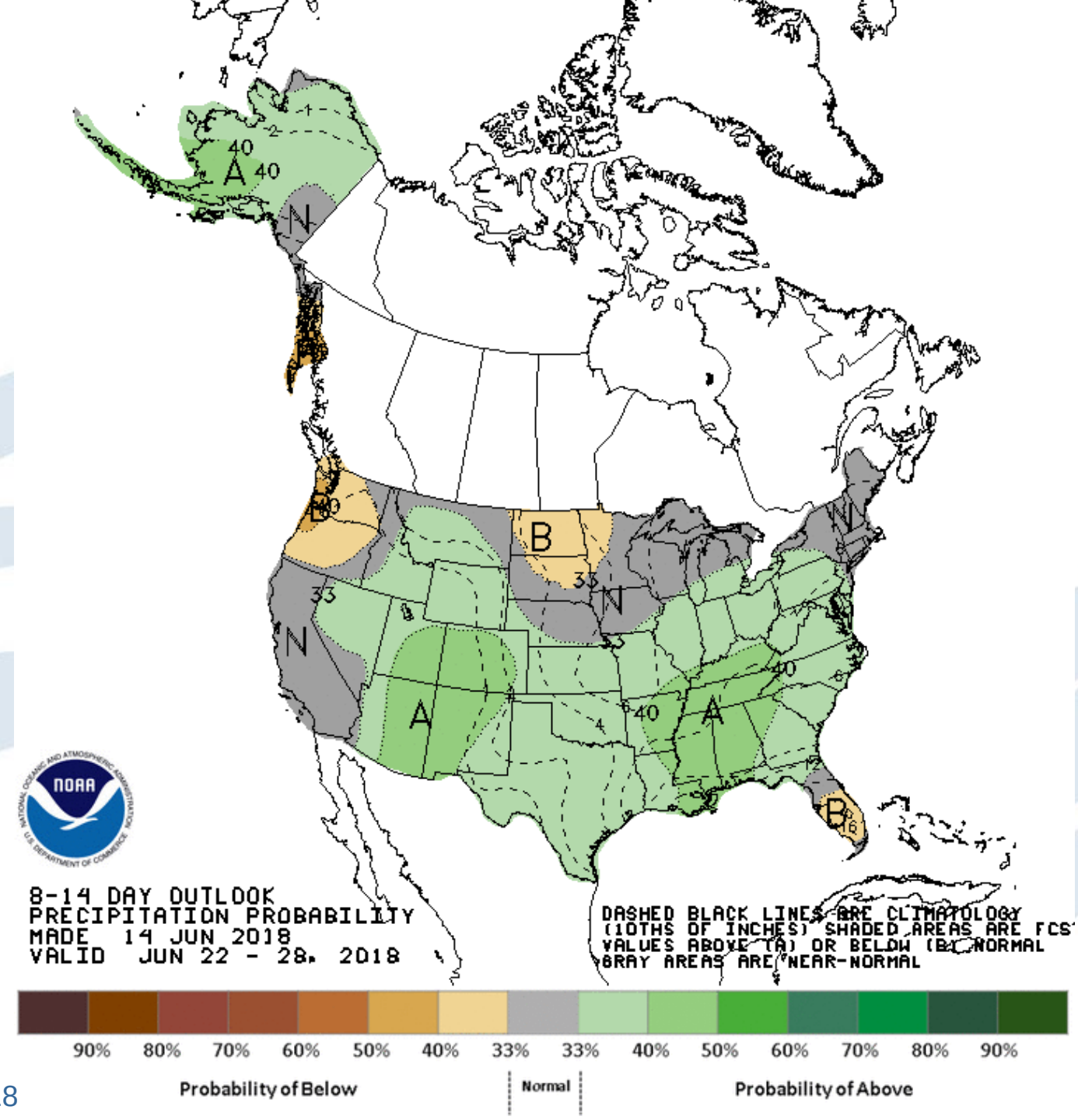
National Drought Mitigation Center

http://droughtmonitor.unl.edu/


8-14 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 14 JUN 2018
VALID JUN 22 - 28, 2018
DASHED BLACK LINES ARE CLIMATOLOGY (DEG F) SHADED AREAS ARE FCST VALUES ABOVE (A) OR BELOW (B) NORMAL GRAY AREAS ARE NEAR-NORMAL
90% 80% 70% 60% 50% 40% 33% 33% 40% 50% 60% 70% 80% 90%
Probability of Below
Normal
Probability of Above


8-14 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 14 JUN 2018
VALID JUN 22 - 28, 2018
DASHED BLACK LINES ARE CLIMATOLOGY
(10THS OF INCHES) SHADED AREAS ARE FCS
VALUES ABOVE (A) OR BELOW (B) NORMAL
GRAY AREAS ARE NEAR-NORMAL
90% 80% 70% 60% 50% 40% 33% 33% 40% 50% 60% 70% 80% 90%
Probability of Below
Normal
Probability of Above

Questions?

Extra Slides

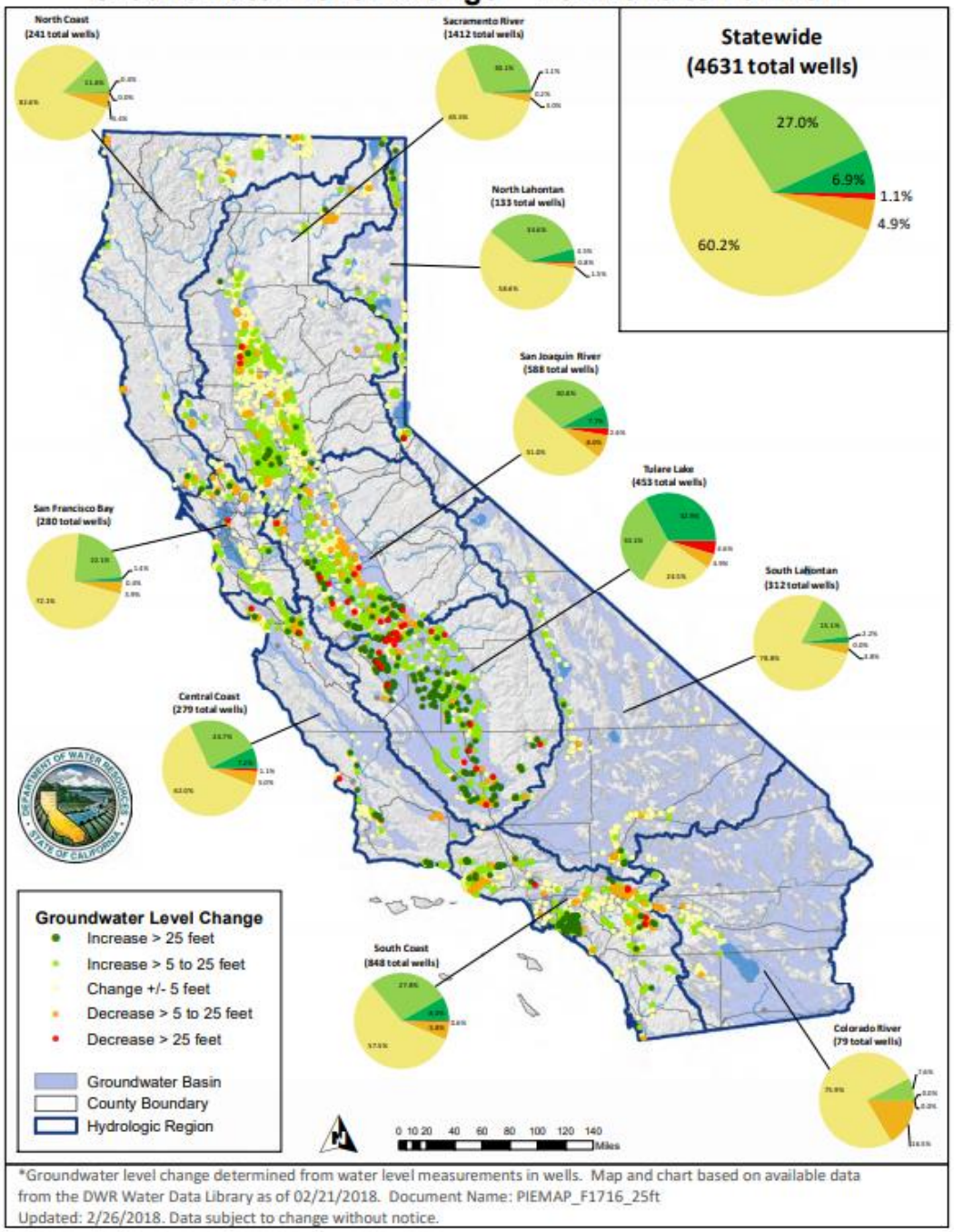
El Niño/La Niña

ENSO-neutral conditions are favored through summer 2018, with the chance for El Niño rising to 50% during fall, and ~65% by winter 2018-19

Groundwater

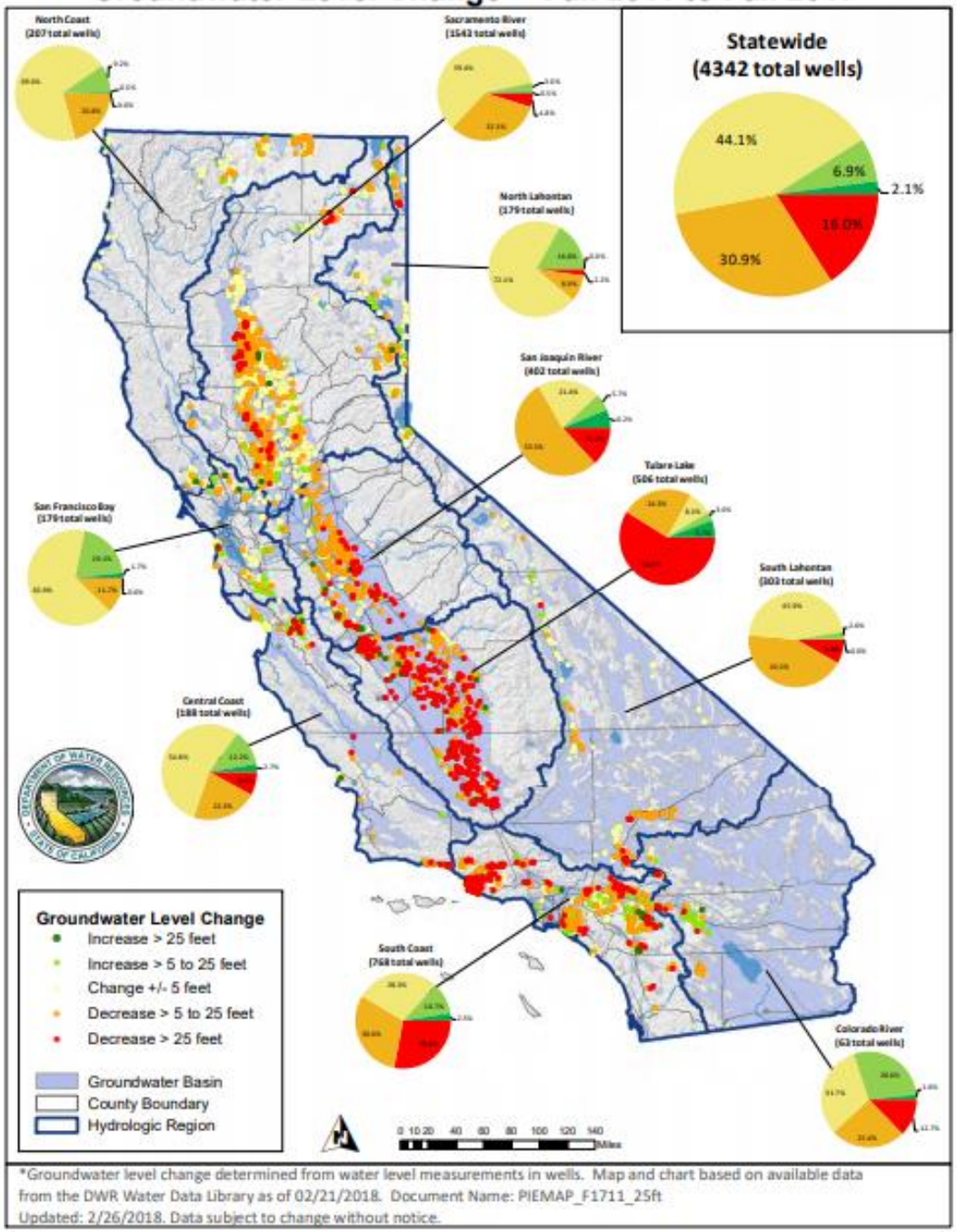
- DWR has updated groundwater data with information from Fall 2017

Groundwater Level Change* - Fall 2016 to Fall 2017



*Groundwater level change determined from water level measurements in wells. Map and chart based on available data from the DWR Water Data Library as of 02/21/2018. Document Name: PIEMAP_F1716_25ft
Updated: 2/26/2018. Data subject to change without notice.

Groundwater Level Change* - Fall 2011 to Fall 2017



*Groundwater level change determined from water level measurements in wells. Map and chart based on available data from the DWR Water Data Library as of 02/21/2018. Document Name: PIEMAP_F1711_25ft
Updated: 2/26/2018. Data subject to change without notice.